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I - Model A22, 2 PCLM:
                                                                           Wright R975E-3
          Engine
                                                                           80 minimum octane aviation gasoline
          Fuel
                                                                           Maximum, except take-off
34.5 in. Hg., 2200 rpm (420 hp)
Take-off (one minute)
          Engine limits
                                                                          Take-off (one minute)
36.5 in. Hg., 2250 rpm (450 hp)
Level flight or climb - 170 mph True Ind.
Glide or dive - 250 mph True Ind.
Flaps extended - 100 mph True Ind.
(-51.4) (19.7 percent MAC) to (-46.8)
(26.9 percent MAC)
Trailing edge of wing at root
Spirit level installed in front cockpit
3455 lbs.
         Airspeed limits
         C.G. range
          Datum
          Leveling means
Maximum weight
                                                                           3455 lbs.
2 (+16) and (-31)
40 lbs. (+40)
          No. seats
          Maximum baggage
                                                                           94 gallons (two tanks in wing, 33 gallons each) (-48) and two outboard wing tanks, 14 gallons each (-40)
          Fuel capacity
                                                                           each (-40)
6-1/2 gallons (-81)
A22-1 only
Items 101(a), 102(a), 103(a), 104(a) and (c), 105,
106(a), 107, 108(a), 109(a), 110(a), 111(a),
          Oil capacity
Serial Nos. eligible
           Required equipment
                                                                                 112 (a)
II - Models 22B and Navy SNC-1, 1-2 PCLM (See NOTE 1)
                                                                            Wright R975E-3
                                                                            80 minimum octane aviation gasoline
           Fuel
                                                                          80 minimum octane aviation gasoline
Maximum, except take-off
34.5 in. Hg., 2200 rpm (420 hp)
Take-off (one minute)
36.5 in. Hg., 2250 rpm (450 hp)
Level flight or climb - 170 mph True INd.
Glide or dive - 250 mph True Ind.
Flaps extended - 100 mph True Ind.
(-51.4) (19.7 percent MAC) to (-46.8)
(26.9 percent MAC)
Trailing edge of wing at root
Leveling lugs installed on top longeron in front cockpit
          Engine limits
          Airspeed limits
          C.G. range
           Datum
          Leveling means
                                                                                 cockpit
           Maximum weight
                                                                            3455 lbs.
                                                                            2 (+16) and (-31)
40 lbs. (+40)
           No. seats
Maximum baggage
                                                                            66 gallons (two tanks in wing center section 33 gallons each (-48)) 6 gallons (-80)
           Fuel capacity
          Oil capacity
Serial Nos. eligible
                                                                            (Model 22B) - 3604 only

(Model SNC-1) All Navy Serial Nos. per NOTE 3

Items 101(b), 102(b), 103(b), 104(b), and (d),

105, 106(b), 108(b), 109(b), 110(b), 111(b)

and (c), 112(b), 113, 114
           Required equipment
Specifications Pertinent to All Models:
                                                                            Airworthiness Certificate only (CAR 04a)
Elgible for export to all countries except Great
Britain, Canada, Australia and New Zealand
           Certification basis
           Export eligibility
           EQUIPMENT:
                    Items included in required list under specifications pertinent to individual
           Items included in required list under specifications pertinent to indivi-
models may not be removed unless replaced by approved equivalent items.
The effect upon balance of all equipment changes must be computed and the
aircraft operation record revised accordingly. Values in inches shown in
parenthesis after each item represent horizontal arms to the C.G. of the
item measures minus (-) ahead and plus (+) to the rear of the datum. A
plus (+) or minus (-) sign preceding the weight of an optional item indicates
that net weight change between that item and the equivalent required item.
           Propellers and Propeller Accessories
101. Propeller - metal
(a) Controllable (Hamilton
Standard hub 2D30, blades
6095-A-15) (low pitch
setting 15 degrees)
                                                                                                                                                                                  22B, SNC-1
                                                                                                                                            A22
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155 lbs. (-121)

MODELS: Curtiss-Wright A22, 22B and Navy SNC-1

T.C. NUMBER: 2-549

|                                   | (b) Constant speed (Hamilton<br>Standard hub 2D30, blade<br>6167A-15) (low pitch                         | S                  |                |                   |
|-----------------------------------|--|--------------------|----------------|-------------------|
| 207.                              | setting 13 degrees) Propeller - adjustable metal (Hamilton Standard hub 5406,                            | 157 lbs.           |                | (-121)            |
|                                   | blades A3A1-21)  | 86 lbs.            | (-121)         |                   |
| Engine and Engine Accessories     |  |                    |                |                   |
| 102.                              | Exhaust collector ring (a) WAC   | 25 lbs.            | (-111)         |                   |
|                                   | (b) WAC SU472  | 27 lbs.            |                | (-111)            |
| 103.                              | Oil cooler (a) U.A.P3150   | 12 15-             | /_01\          |                   |
|                                   | (b) U.A.P3150  | 12 lbs.<br>14 lbs. | (-91)<br>      | (-88)             |
| 104.                              | Fuel pumps (a) Wobble (Type D-2) (b) Wobble (U.A.P. AEL-1 fue  | 3 lbs.             | (-77)          |                   |
|                                   | (b) Wobble (U.A.P. AEL-1 fue<br>unit, including wobble<br>pump)  | 7 lbs.             |                | (-52)             |
|                                   | (c) Engine driven (Pesco<br>R-400-BLE)   | 3 lbs.             | (-87)          |                   |
| 111.                              | (d) Engine driven (Pesco<br>R-400BR)<br>Hydraulic pump   | 31 lbs.            |                | (-85)             |
| • • • • •                         | (a) Northill 7-181-L   | 8 lbs.             | (-39)          |                   |
|                                   | (b) Engine driven (Pesco<br>204-DA)  | 4 lbs.             |                | (-95)             |
|                                   | (c) Hand operated (Adel D-8109)  | 5 lbs.             |                | (-39)             |
| 113.                              | Starter - hand inertia<br>(Eclipse Series XI)  | 34 1bs.            |                | (-83)             |
| 201.                              | Starter (Eclipse F-141)  | 25 lbs.            | (-85)          | <del>(</del> -03) |
| Landing Gear                      |  |                    |                |                   |
| 105.                              | (a) 7.50-10 wheels   |                    |                |                   |
|                                   | (Goodyear 10HBM) (b) 6.50-10 6-ply H.D. tires  | 33 lbs.<br>22 lbs. | (-67)<br>(-67) | (-67)<br>(-67)    |
| 106.                              | (a) 8 in. streamline tail wheel with 6-ply tire (wheel must be placarded                                 | 22 153.            | ( 0/)          | (=07)             |
|                                   | for Goodyear H.D. tire<br>at 45 lbs. air pressure)<br>(b) 10 in. smooth contour<br>tail wheel with 6-ply | 2 lbs.             | (+160)         |                   |
|                                   | H.D. tire (wheel must be<br>placarded for this tire)   | 7 lbs.             |                | (+165)            |
| Electrical Equipment 108. Battery |  |                    |                |                   |
| .001                              | (a) Exide 6-TS-7-1   | 28 lbs.            | (+38)          |                   |
| 109.                              | (b) Exide 6-TS-7B<br>Generator   | 25 lbs.            |                | (+56)             |
| 103.                              | (a) Eclipse type G-2   | 22 lbs.            | (-85)          |                   |
| 110.                              | (b) Eclipse 703-3<br>Generator control box   | 23 lbs.            |                | (-85)             |
|                                   | (a) Eclipse CB-666   | 5 lbs.             | (-77)          |                   |
| 116.                              | (b) Eclipse G-24A<br>Landing lights - two  | 6 lbs.             |                | (-10)             |
| , , , ,                           | (Grimes ST-1220)   | 10 lbs.            |                | (-38)             |
|                                   | Equipment  |                    |                |                   |
| 107.<br>112.                      | Tell-tale signal system Instruments  | 2 lbs.             | (-40)          |                   |
|                                   | (a)  | 8 lbs.             | (-40)          |                   |
|                                   | (b) Front cockpit Rear cockpit   | 17 lbs.<br>11 lbs. |                | (-60)<br>(-6)     |
| 114.                              | Vacuum pump (Pesco B-2A)   | 4 lbs.             |                | (-84)             |
| 115.                              | Pressure fire extinguisher (5 lbs. CO-2 type)  | 20 lbs.            |                | (-69)             |
| 202.                              | Cabin heater   | 6 lbs.             | (-98)          |                   |
| 203.<br>205.                      | Pressure fire extinguisher<br>Vacuum pump (Eclipse AP-8)   | 18 lbs.<br>7 lbs.  | (-72)<br>(-90) |                   |
| 206.                              | Extra instruments  | 20 lbs.            | (-40)          |                   |
| 208.                              | Flares - two (Wiley A-8)   | 34 lbs.            |                | (+67)             |

NOTE 1. For the Model 22B, Serial No. 3604, the following placards are to be posted in full view of the pilot:
"WITH PASSENGER - MAXIMUM FUEL 63 GALS.: NO BAGGAGE, FLARES, RADIO TRANSMITTER OR POWER UNIT SHALL BE CARRIED. WITHOUT PASSENGER - FULL FUEL, ALL EQUIPMENT AND 40 LBS. MAXIMUM BAGGAGE MAY BE CARRIED."

"SOLO FROM FRONT SEAT ONLY." For SNC-1 airplanes, placards covering loading schedules will be determined by the individual airplane weight and balance report. Post in full view of the pilot, also, the following: "SOLO FROM FRONT SEAT ONLY."

- NOTE 2. Navy Model SNC-1 eligible when follwoing changes are made:
  (a) Rudder to be revised in accordance with Curtiss-Wright Drawing 19-14-02.
  - (b) Check to assure pilots cabin enclosure is in accordance with Curtiss-Wright Drawing 22-251-01.
  - (c) Relocate master battery switch to be close to battery and make this switch operable to pilot in flight.
  - (d) Install fire resistant bulkheads for leading edge of wing in engine compartment.